



ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Method and apparatus for performing technology mapping						
Application Number:	10/066456						
Confirmation Number:	2203						
First Named Applicant:	Steven Teig						
Attorney Docket Number:	SPLX.P0099						
Art Unit:	2825						
Examiner:	Binh Tat						
Search string:	(6216252).pn.						
US Patent Documents							
Note: Applicant is not required to submit a paper copy of cited US Patent Documents							
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
105	1	6216252	2001-04-10	Dangelo et al.	B1		
Signature							
Examiner Name				Date			
				07/22/04			

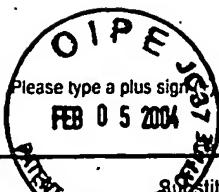


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Art Unit:	2825						
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Search string:	(5668732 or 5696694).pn.						
US Patent Documents							
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init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
BT	1	5668732	1997-09-16	Khouja et al.			
BT	2	5696694	1997-12-09	Khouja et al.			
Signature							
Examiner Name				Date			
				07/22/04			



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PATENTS & TRADEMARKS Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/066,456
Sheet	1	of	2	Filing Date	1/31/02
				First Named Inventor	Steven Teig, et al.
				Group Art Unit	2825
				Examiner Name	B. Tat
				Attorney Docket Number	SPLX.P0099

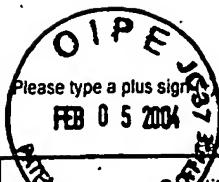
U.S. PATENT DOCUMENTS					
Examiner* Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)		
PJ	1.	2002/0157063	A1	10-24-2002 Besson	
	2.	2002/0178432	A1	11-28-2002 Kim et al.	
	3.	2003/0145288	A1	07-31-2003 Wang et al.	
	4.	4,703,435		10-27-1987 Darringer et al.	
	5.	5,003,487		03-26-1991 Drumm et al.	
	6.	5,537,330		07-16-1996 Damiano et al.	
	7.	5,892,678		04-06-1999 Tokunoh et al.	
	8.	5,903,466		05-11-1999 Beausang et al.	
	9.	5,991,524		11-23-1999 Belkhale et al.	
	10.	6,080,204		06-27-2000 Mendel	
	11.	6,311,317	B1	10-30-2001 Khoche et al.	
	12.	6,389,586	B1	05-14-2002 McElvain	
	13.	6,397,170	B1	05-28-2002 Dean et al.	
	14.	6,421,818	B1	07-16-2002 Dupenloup et al.	
	15.	6,446,240	B1	09-03-2002 Iyer et al.	
	16.	6,453,447	B1	09-17-2002 Gardner et al.	
	17.	6,470,486	B1	10-22-2002 Knapp	
	18.	6,519,754	B1	02-11-2003 McElvain et al.	
	19.	6,519,609	B1	02-11-2003 Touzet	
	20.	6,539,536	B1	03-25-2003 Singh et al.	
BT	21.	6,543,037	B1	04-01-2003 Limqueco et al.	

Examiner Signature	<i>B. Tat</i>	Date Considered	07/12/04
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ATTENTS & TRADEMARKS Substitute for form 1449A/PTO				Application Number	10/066,456
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	1/31/02
(use as many sheets as necessary)				First Named Inventor	Steven Teig, et al.
				Group Art Unit	2825
				Examiner Name	B. Tat
Sheet	1	of	2	Attorney Docket Number	SPLX.P0099

U.S. PATENT DOCUMENTS						
Examiner's Initials	Cite No. ¹	U.S. Patent Document Number	Kind Code ² (if known)	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<i>BS</i>	1.	2002/0157063	A1	10-24-2002	Besson	
	2.	2002/0178432	A1	11-28-2002	Kim et al.	
	3.	2003/0145288	A1	07-31-2003	Wang et al.	
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	11.	6,311,317	B1	10-30-2001	Khoche et al.	
	12.	6,389,586	B1	05-14-2002	McElvain	
	13.	6,397,170	B1	05-28-2002	Dean et al.	
	14.	6,421,818	B1	07-16-2002	Dupenloup et al.	
	15.	6,446,240	B1	09-03-2002	Iyer et al.	
	16.	6,453,447	B1	09-17-2002	Gardner et al.	
	17.	6,470,486	B1	10-22-2002	Knapp	
	18.	6,519,754	B1	02-11-2003	McElvain et al.	
	19.	6,519,609	B1	02-11-2003	Touzet	
	20.	6,539,536	B1	03-25-2003	Singh et al.	
<i>BS</i>	21.	6,543,037	B1	04-01-2003	Limqueco et al.	

Examiner Signature	<i>Robert</i>	Date Considered	07/22/04
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

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				Group Art Unit	2825
				Examiner Name	B. Tat
Sheet	2	of	2	Attorney Docket Number	SPLX.P0099

U.S. PATENT DOCUMENTS

<i>BT</i>	22.	6,546,541	B1	04-08-2003	Petranovic et al.	
<i>BT</i>	23.	6,618,835	B1	09-09-2003	Garlapati et al.	

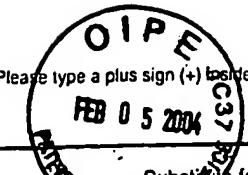
NON PATENT LITERATURE DOCUMENTS

Examiner* Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>BT</i>	24.	NN78055443, "Automatic Remap", IBM Technical Disclosure Bulletin, Vol. 20, No. 12, May 1978, pp. 5443-5445 (5 pages).	
<i>BT</i>	25.	NN9411291, "Design of Portable Library using Parameterized Cells", IBM Technical Disclosure Bulletin, Vo.. 37, No. 11, pp. 291-292 (4 pages).	
<i>BT</i>	26.	Markovic et al., "FPGA to ASIC Conversion Design Methodology with the Support for Fast Retargetting to Different CMOS Implementation Technologies", Proceedings of 2002 22 nd International Conference on Microelectronics , Vol. 2, 14 May 2000, pp. 703-706.	
<i>BT</i>	27.	Ruiz et al., " Design and Prototyping of DSP Custom Circuits Based on a Library of Arithmetic Components", Vol. 1, 9 November 1997, pp. 191-196.	
<i>KH</i>	28.	Tamiya, Y., " Delay Estimation for Technology Independent Synthesis", 1997 Proceedings of the ASP-DAC '97, Asia and South Pacific Design Automation Conference, 28 January 1997, pp. 31-36.	

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BS	1.	5,311,442		05-10-1994	Fukushima	
	2.	5,519,630		05-21-1996	Nishiyama et al.	
	3.	5,521,835		05-28-1996	Trimberger	
	4.	5,537,341		07-16-1996	Rose et al.	
	5.	5,610,829		03-11-1997	Trimberger	
	6.	5,696,974		12-09-1997	Agrawal et al.	
	7.	5,752,000		05-12-1998	McGeer et al	
	8.	5,574,441		05-19-1998	Tokunoh et al.	
	9.	5,787,010		07-28-1998	Schaefer et al.	
	10.	6,023,566		02-08-2000	Belkhale et al.	
	11.	6,035,107		03-07-2000	Kuehlmann et al.	
	12.	6,086,626		07-11-2000	Jain et al	
	13.	6,102,964		08-15-2000	Tse et al.	
	14.	6,301,696		11-09-2001	Lien et al.	
	15.	6,334,205	B1	12-25-2001	Iyer et al.	
	16.	6,336,208		01-01-2002	Mohan et al	
	17.	6,470478	B1	10-22-2002	Bargh et al.	
	18.	6,473,884		10-29-2002	Ganai et al	
	19.	6,496,972	B1	12-17-2002	Segal	
	20.	6,523,156	B2	02-18-2003	Cirit	
BS	21.	6,574,779	B2	06-03-2003	Allen et al.	

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BT	22.	Crastes, M. et al., A technology Mapping Method Based on Perfect and Semi-Perfect Matchings, Design Automation Conference, 1991, 28 th ACM/IEEE, June 17-21, 1991, pp. 93-98.	
BT	23.	Devadas, S. et al., Synthesis and Optimization for Robustly Delay-fault Testable Combinational Logic Circuits, Design Automation Conference, 1990, 27 th ACM/IEEE, June 24-28, 1990, pp.221-227.	
BT	24.	Yi, J. H. et al., Technology Mapping for Storage Elements Based on BDD matching, Proceedings of the 40 th Midwest Symposium on Circuits and Systems, pp. 1099-1102, vol.2, August 1997.	

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RELATED U.S. PATENT APPLICATIONS

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		Serial Number				
Bf	1.	10/062,017		Steven Teig & Asmus Hetzel	01-31-02	
	2.	10/061,459		Steven Teig & Asmuz Hetzel	01-31-02	
	3.	10/062,014		Steven Teig & Asmus Hetzel	01-31-02	
	4.	10/062,044		Steven Teig & Asmuz Hetzel	01-31-02	
	5.	10/066,264		Steven Teig & Asmus Hetzel	01-31-02	
	6.	10/066,188		Steven Teig & Asmus Hetzel	01-31-02	
	7.	10/062,992		Steven Teig & Asmuz Hetzel	01-31-02	
	8.	10/061,474		Steven Teig & Asmus Hetzel	01-31-02	
	9.	10/061,719		Steven Teig & Asmus Hetzel	01-31-02	
	10.	10/062,993		Steven Teig & Asmus Hetzel	01-31-02	
Bf	11.	10/062,047		Steven Teig & Asmuz Hetzel	01-31-02	

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Bf	12.	5,649,165		Jain et al.	07-15-97	
Bf	13.	6,301,687	B1	Jain et al.	10-09-01	

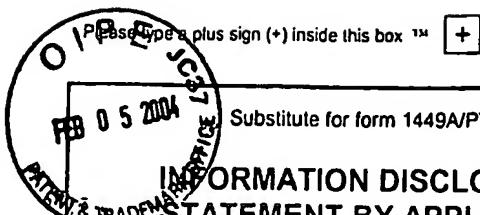
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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<i>B</i>	14.	D. Jongeneel, R. Otten, Y. Watanabe and R. K. Brayton, Area and Search Space Control for Technology Mapping, 37 th Design Automation Conference, 86-91, 2000.	
	15.	Henrik Reif Andersen, An Introduction to Binary Decision Diagrams, October 1997 (minor revisions April 1998), 36 pp.	
	16.	Jerry Burch and David Long, Efficient Boolean Function Matching, Proc. ICCAD 1992, 408-411.	
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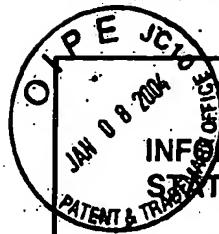
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U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document Number	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BAT	1.	5,311,442	05-10-1994	Fukushima	
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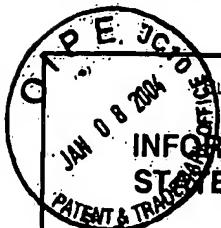
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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁴
PB	22.	Crastes, M. et al., A technology Mapping Method Based on Perfect and Semi-Perfect Matchings, Design Automation Conference, 1991, 28 th ACM/IEEE, June 17-21, 1991, pp. 93-98.	
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